



# FEDERAL UNIVERSITY DUTSE

## Faculty of Computing Department of Computer Science

### SECOND SEMESTER EXAMINATIONS 2018/2019 ACADEMIC SESSION

<b>Course Title:</b>	Introduction to Web Programming II		
<b>Course Code:</b>	CSC 212	<b>Date of Exam:</b>	18th September, 2019
<b>No. Of Credits:</b>	Two (2)	<b>Time of Exam:</b>	11:00am – 2:00pm
<b>Course Status:</b>	Compulsory	<b>Time Allowed:</b>	2Hours
<b>Level:</b>	200	<b>Venue:</b>	CSC LR 1, 2, 3

**Instruction:** Answer any four (4) questions, All questions carry equal marks.

#### Question One:

- a) Write a JavaScript to find the two roots of a given quadratic equation. [11.5marks]
- b) Write a JavaScript code snippet to show how to create an array totals with the following values: 141.95, 212.25 and 411. [3marks]
- c) Write a FOR loop to display the elements of the totals array in console. [3marks]

#### Question Two:

- a) Write a PHP script that creates a connection to MySQL database using PDO. (Take the default MySQL username and password). [11marks]
- b) Write a PHP array *people* to store the following associative values firstname=Muhammad, lastname=Ali, Id=123, dob=12/03/1999. [3marks]
- c) Write a *for* each *loop* to display all the elements of the people array. [3.5marks]

#### Question Three:

- a) Write a PHP program to find and print the factorial of a number using a *for loop*. [10.5marks]
- b) Write three different types of an array in PHP. [3marks]
- c) List and explain four functions to search for a string. [4marks]

#### Question Four:

- a) The area of a pentagon can be computed using the following formula:

$$Area = \frac{5 \times s^2}{4 \times \tan\left(\frac{\pi}{5}\right)}$$

Write a JavaScript program that prompts the user to enter the side of a pentagon and displays its area. [13.5marks]

- b) What does `isset()` function do in PHP? [2marks]
- c) Describe how to initiate a session in PHP? [2marks]

**Question Five:**

- a) Write an SQL query to create a table students with the following attributes (id, firstname, lastname, email, gender), the primary key should be an auto generated field. **[3marks]**
- b) i) Write a query to insert a sample record in to the student above table. **[2.5marks]**  
ii) Write the four (4) categories of SQL and the statements found in each category. **[5marks]**
- c) i) Write a query to display all the records in the students table in ascending order of their surnames. **[2marks]**  
ii) Write a query to change the email [indh@example.com](mailto:indh@example.com) to [indh@fud.edu.ng](mailto:indh@fud.edu.ng) **[3marks]**

**Question Six:**

- a) Write a PHP function that takes in a positive integer and return true if the integer is a prime number and false otherwise. **[7.5marks]**
- b) Write a JavaScript function that takes in an integer and reverse it. **[7marks]**
- c) Write short note on the three (3) common methods of the window class in JavaScript. **[3marks]**